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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,902	07/02/2002	Nikolai Vladimirovich Bovin	9286-7 7167	
20792 7	590 09/06/2006		EXAMINER	
MYERS BIG	EL SIBLEY & SAJOVI	EC	MAIER, I	LEIGH C
PO BOX 37428	8			
RALEIGH, NO	C 27627		ART UNIT	PAPER NUMBER
	•		1623	

DATE MAILED: 09/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

 		Application No.	Applicant(s)		
Office Action Summary		10/019,902	BOVIN ET AL.		
		Examiner	Art Unit-		
		Leigh C. Maier	1623		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES and the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONED	L. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status					
2a)□	Responsive to communication(s) filed on <u>23 M</u> . This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims				
 4) Claim(s) 1-6,9-12,14-16,18,20,23,27 and 28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-5,10-12,14-16,18,20,23,27 and 28 is/are rejected. 7) Claim(s) 6 and 9 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Applicati	on Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the GREP Replacement drawing sheet(s) including the correction of the Oath or declaration is objected to by the Example 2.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119		•		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa	te		

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DETAILED ACTION

Status of the Claims

Claims 1, 10, 12, 15, 18, 23, 27, and 28 have been amended. Claims 1-6, 9-12, 14-16, 18, 20, 23, 27, and 28 are pending. Any rejection or objection not specifically repeated has been withdrawn. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Applicant asserts the entitlement to the consideration of additional species with respect to variable "R" and variable "X" upon allowance of the species wherein "R" is a saccharide, and "X" is carbon. This is noted. However, at this time the examination remains limited to the original species election.

Claim Rejections - 35 USC § 102

Claims 1-5, 10-12, 14-16, 23, 27 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Unverzagt et al (Carbohyd. Res., 1994).

Upon reconsideration of the art of record, it is noted that Unverzagt discloses multivalent glycopeptides consistent in structure with formula I. See Table 1, compounds 3a, b, c. It is noted that the unglycosylated peptide precursor is also consistent with the formula recited in claim 23, which requires no non-hydrogen R-groups. The reference is silent regarding any aggregation of these compounds. However, the compounds are consistent in structure with the recited structural formula and would necessarily have the same physical properties. Since the Office does not have the facilities for preparing the claimed materials and comparing them with prior art inventions,

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the burden is on Applicant to show a novel or unobvious difference between the claimed product and the product of the prior art. See *In re Best*, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977) and *In re Fitzgerald*, 619 F.2d 67, 205 USPQ 594 (CCPA 1980).

Regarding claims 14 and 15, these claims simply recite manipulations, such as pH change, that occur in the normal synthesis and work-up of synthetic compounds.

Claim Rejections - 35 USC § 103

Claims 1-5, 10-12, 14-16, 18, 20, 23, 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Unverzagt et al (Carbohyd. Res., 1994).

Unverzagt teaches as set forth above. The reference further teaches that these compounds inhibit the binding of influenza virus to cells. The reference specifically suggests but does not disclose treatment of influenza.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to administer the disclosed compounds for the treatment of influenza. One of ordinary skill would reasonably expect success in using the compounds in this method because the reference had taught that the compounds inhibit binding of the influenza virus.

Claims 1-5, 10-12, 14-16, 18, 20, 23, 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Unverzagt et al (Carbohyd. Res., 1994) in view of Mammen et al (Angew. Chem. Int. Ed., 1998).

Unverzagt teaches as set forth above. The reference does not teach the full range of saccharide "R" groups or the treatment of the full range of diseases recited.

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The use of multivalent saccharide compounds for the treatment of a variety of diseases is known in the art, as reviewed by Mammen. See particularly the tables in the reference.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the compounds of Unverzagt by the substitution of the saccharide moieties for others known to be useful in the art, as discussed in Mammen. It would be further obvious to use these compounds for the treatment of a variety of diseases, such as those discussed in Mammen. The artisan would reasonably expect success in such modifications of Unverzagt based on the state of the art, as discussed in Mammen.

Allowable Subject Matter

Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claim 6 is also objected to as being dependent upon a rejected base claim to the extent that "X" and "R" are currently limited as discussed above.

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Examiner's hours, phone & fax numbers

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leigh Maier whose telephone number is (571) 272-0656. The examiner can normally be reached on Tuesday, Thursday, and Friday 7:00 to 3:30 (ET).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Anna Jiang (571) 272-0627, may be contacted. The fax number for Group 1600, Art Unit 1623 is (571) 273-0627.

Visit the U.S. PTO's site on the World Wide Web at http://www.uspto.gov. This site contains lots of valuable information including the latest PTO fees, downloadable forms, basic search capabilities and much more.

Leigh C. Maier

Primary Examiner

September 1, 2006